

2018 - Summer Water Supply Outlook

Water Policy Interim Committee

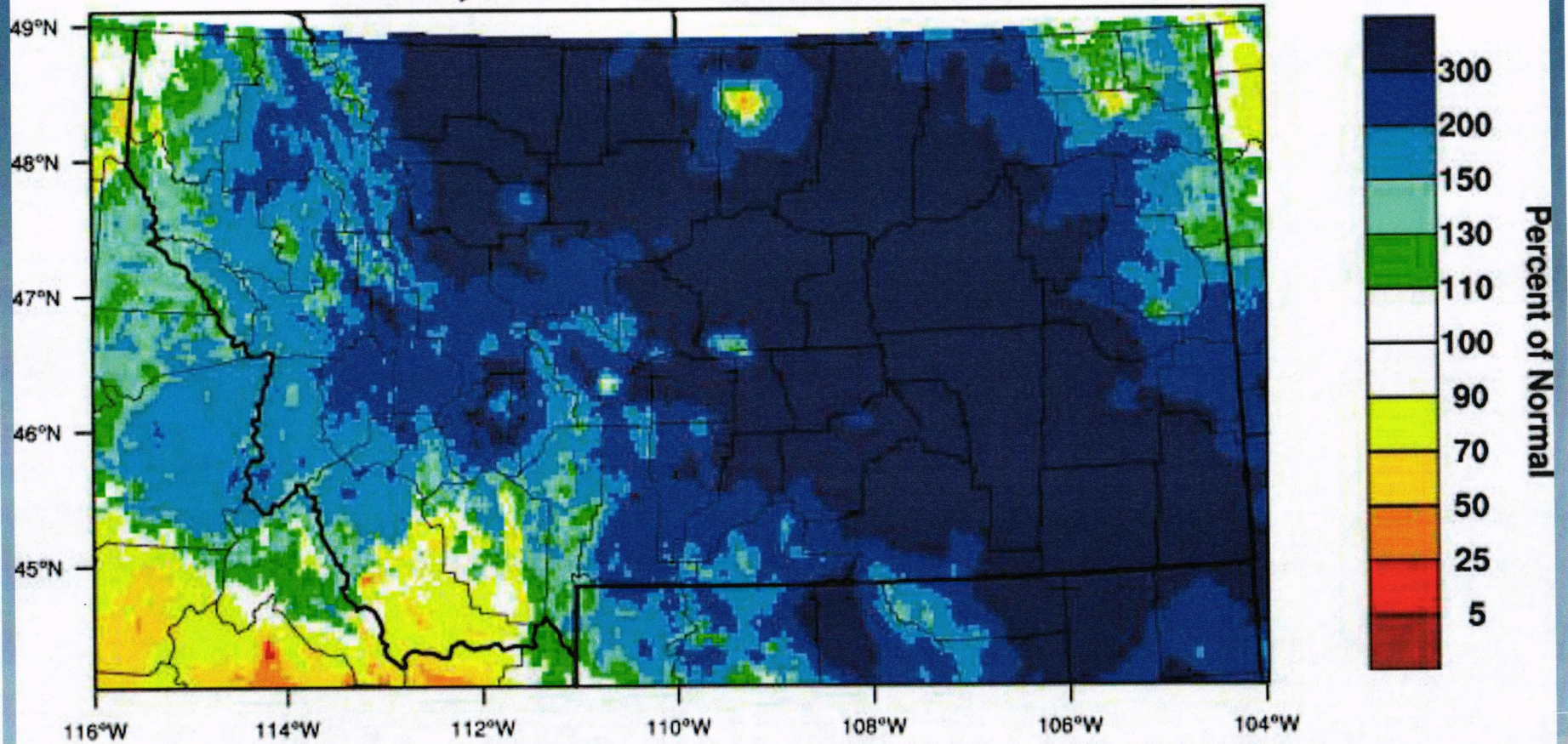
July 16, 2018

Michael Downey – DNRC, Water Management Bureau



Montana - Precipitation

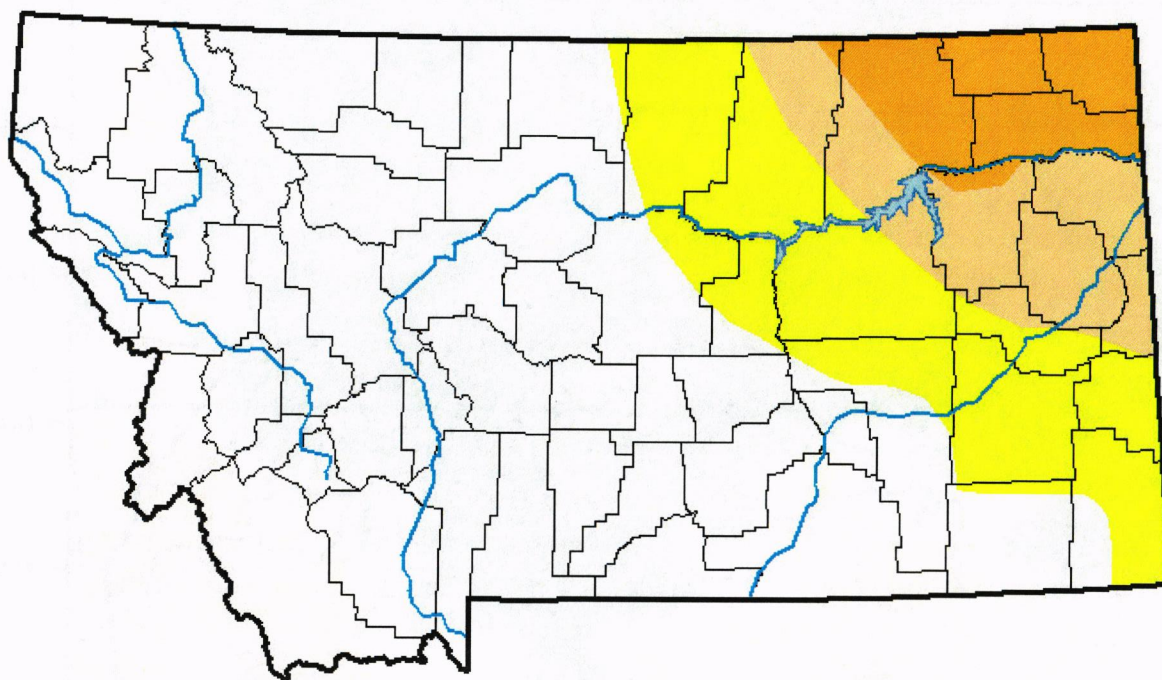
February 2018 Percent of 1981-2010 Normal



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 2 MAR 2018

U.S. Drought Monitor Montana

February 27, 2018
(Released Thursday, Mar. 1, 2018)
Valid 7 a.m. EST



Intensity:

-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

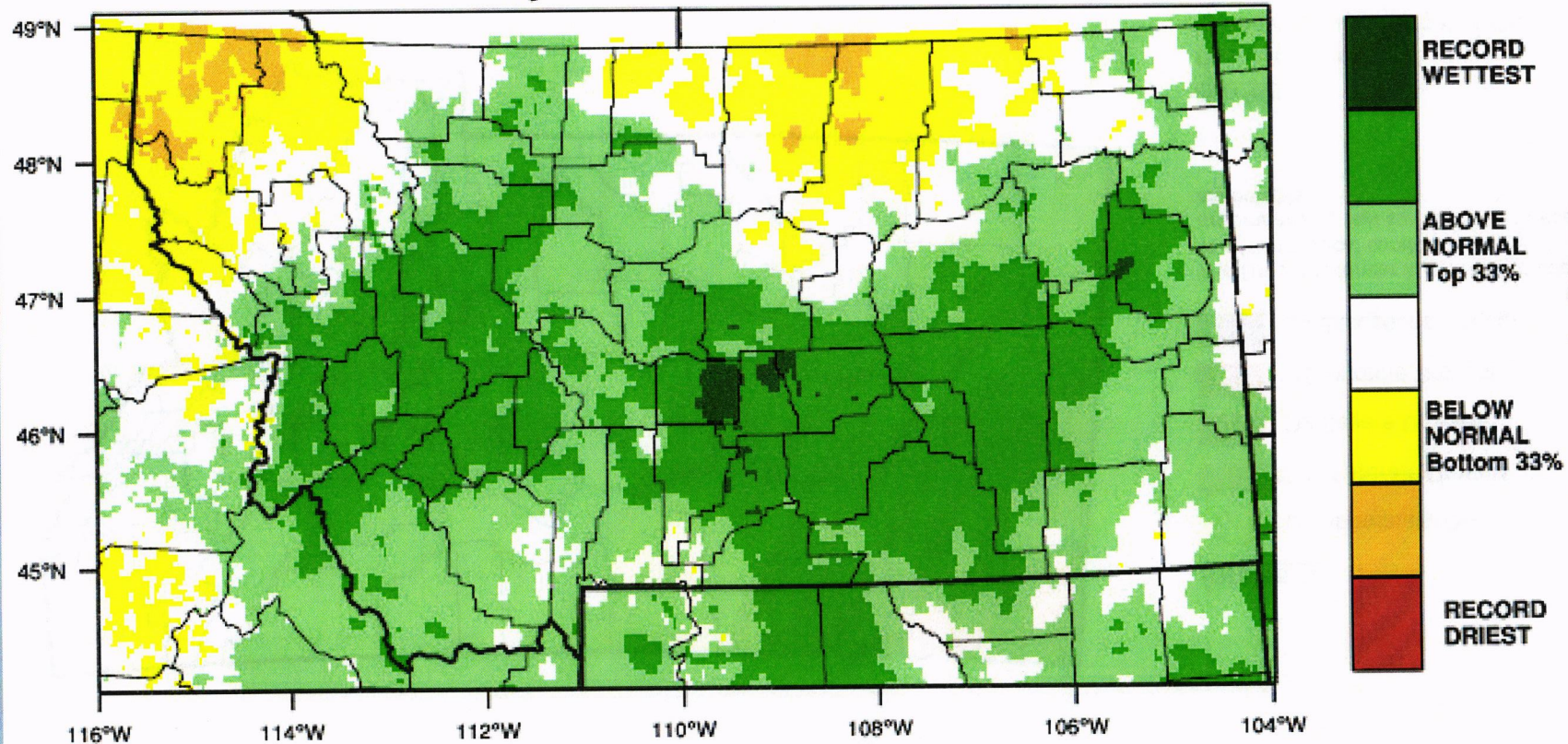
Deborah Bathke
National Drought Mitigation Center



<http://droughtmonitor.unl.edu/>

Montana - Precipitation

May-June 2018 Percentile



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 JUL 2018

U.S. Drought Monitor Montana

July 10, 2018






(Released Thursday, Jul. 12, 2018)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	84.07	15.93	7.36	0.00	0.00	0.00
Last Week 07-03-2018	84.45	15.55	4.10	0.00	0.00	0.00
3 Months Ago 04-10-2018	88.33	11.67	5.79	2.11	0.00	0.00
Start of Calendar Year 01-02-2018	47.47	52.53	42.04	26.75	12.23	0.00
Start of Water Year 09-26-2017	6.48	93.52	86.08	69.62	42.74	17.53
One Year Ago 07-11-2017	45.80	54.20	44.72	37.74	22.00	0.00

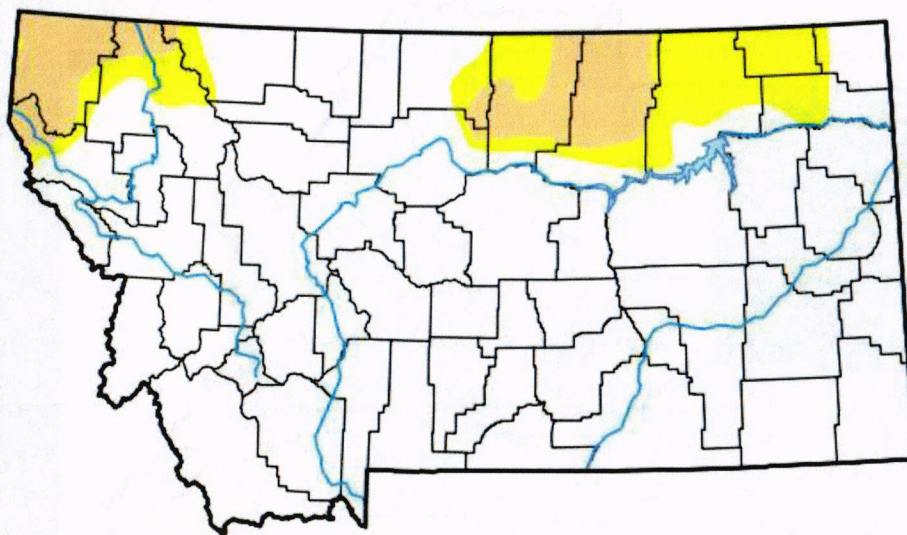
Intensity:

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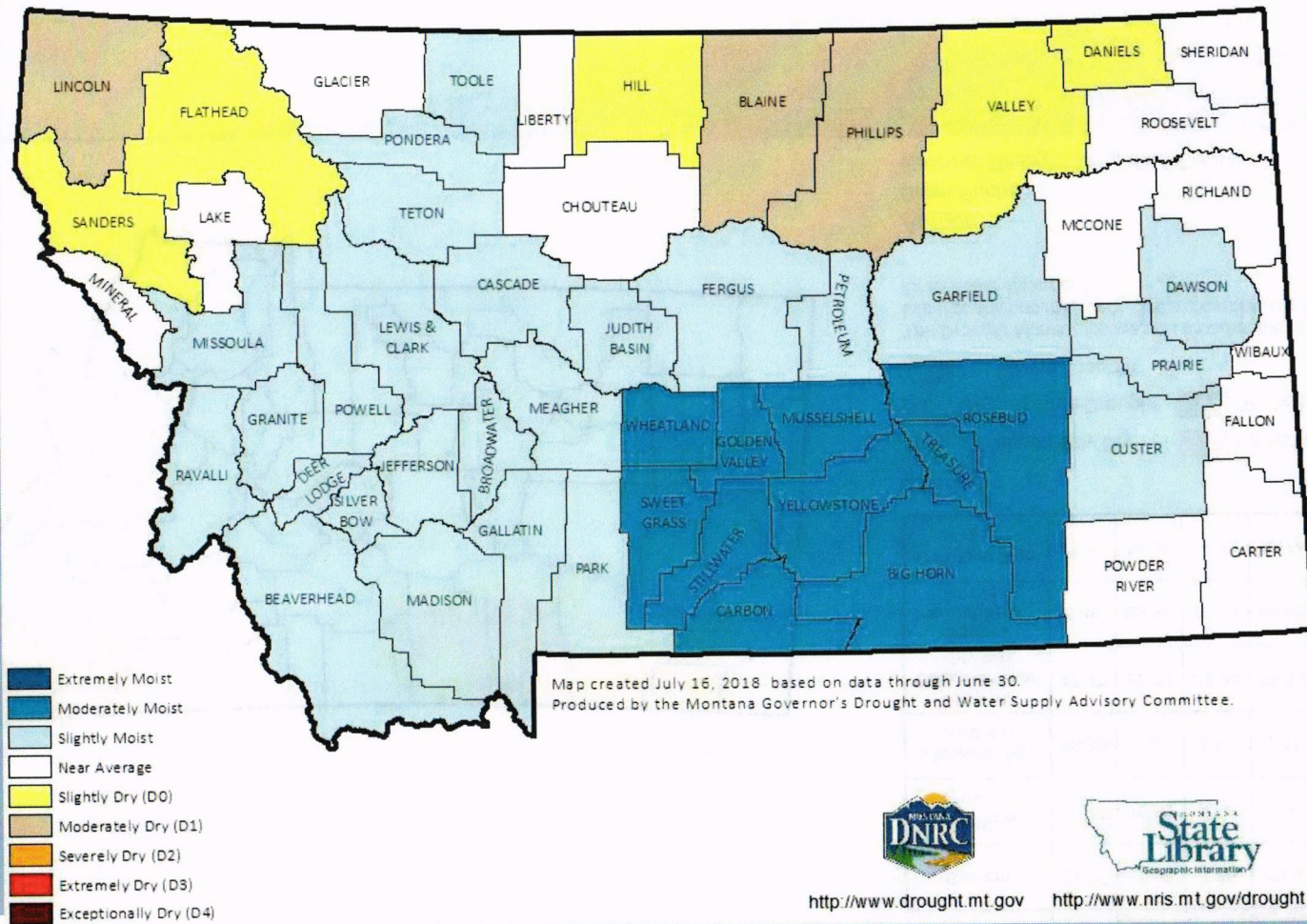
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Author:

Brian Fuchs
National Drought Mitigation Center



Montana Drought Status by County - July 1, 2018

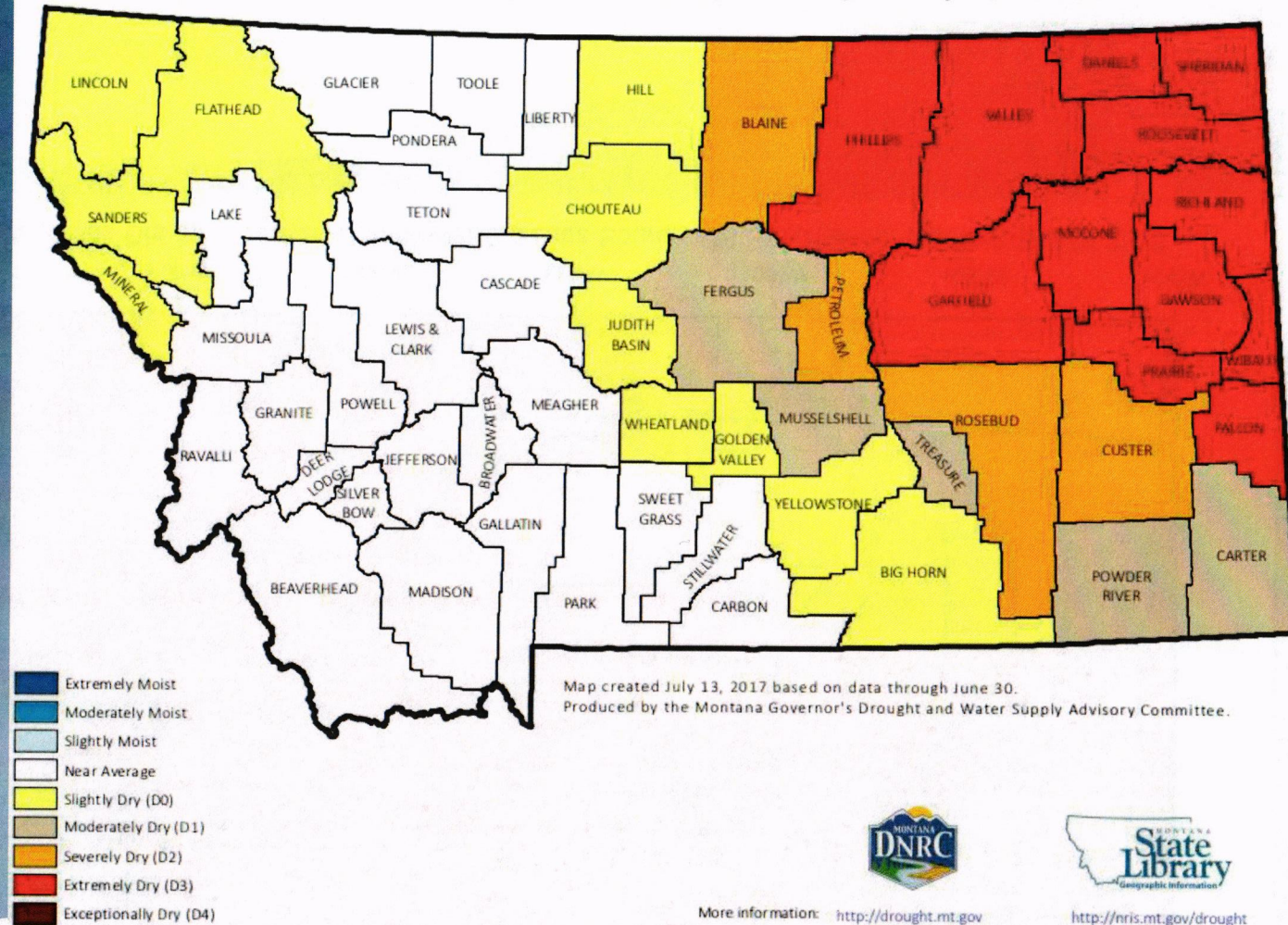


<http://www.drought.mt.gov>



<http://www.nris.mt.gov/drought>

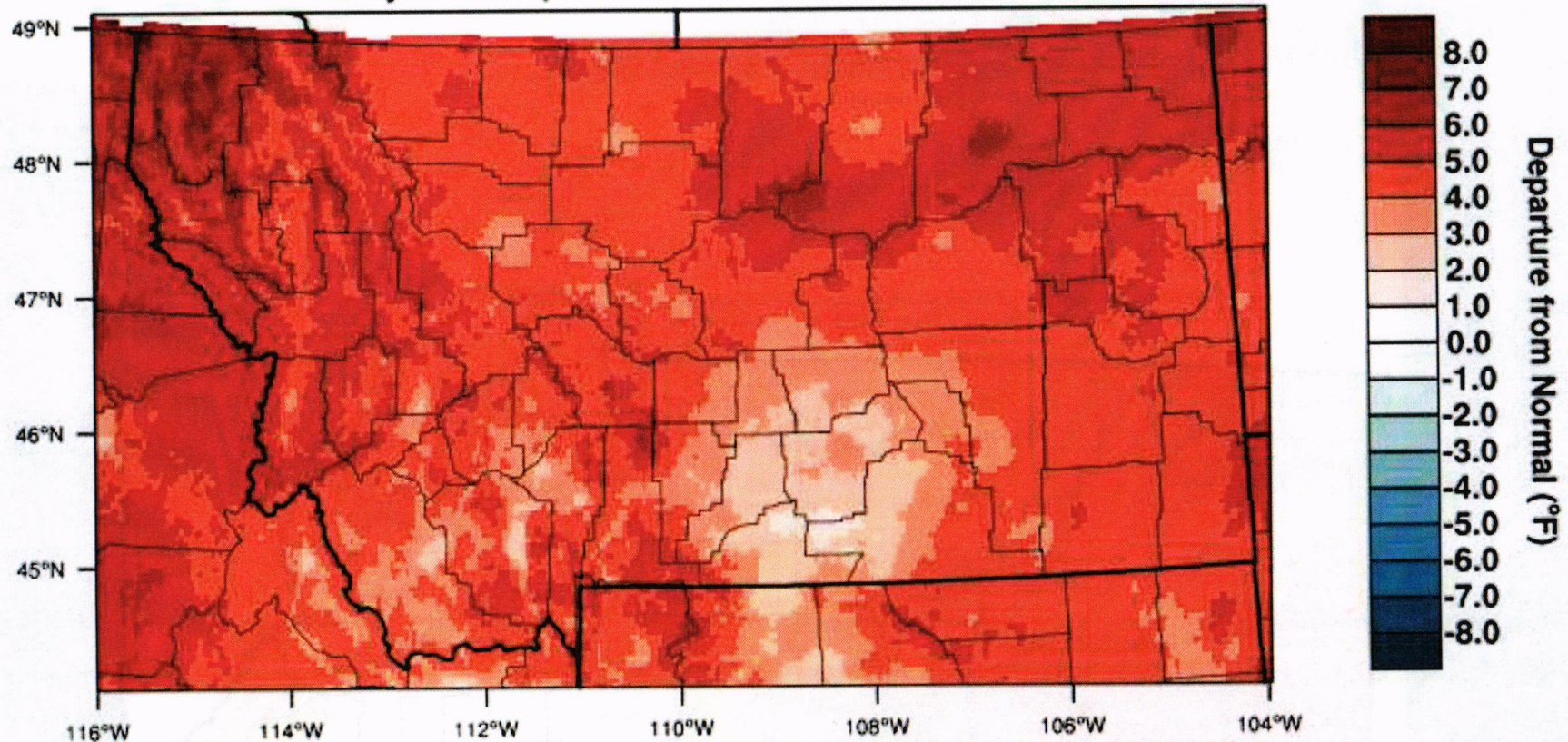
Montana Drought Status by County - July 1, 2017



More information: <http://drought.mt.gov>

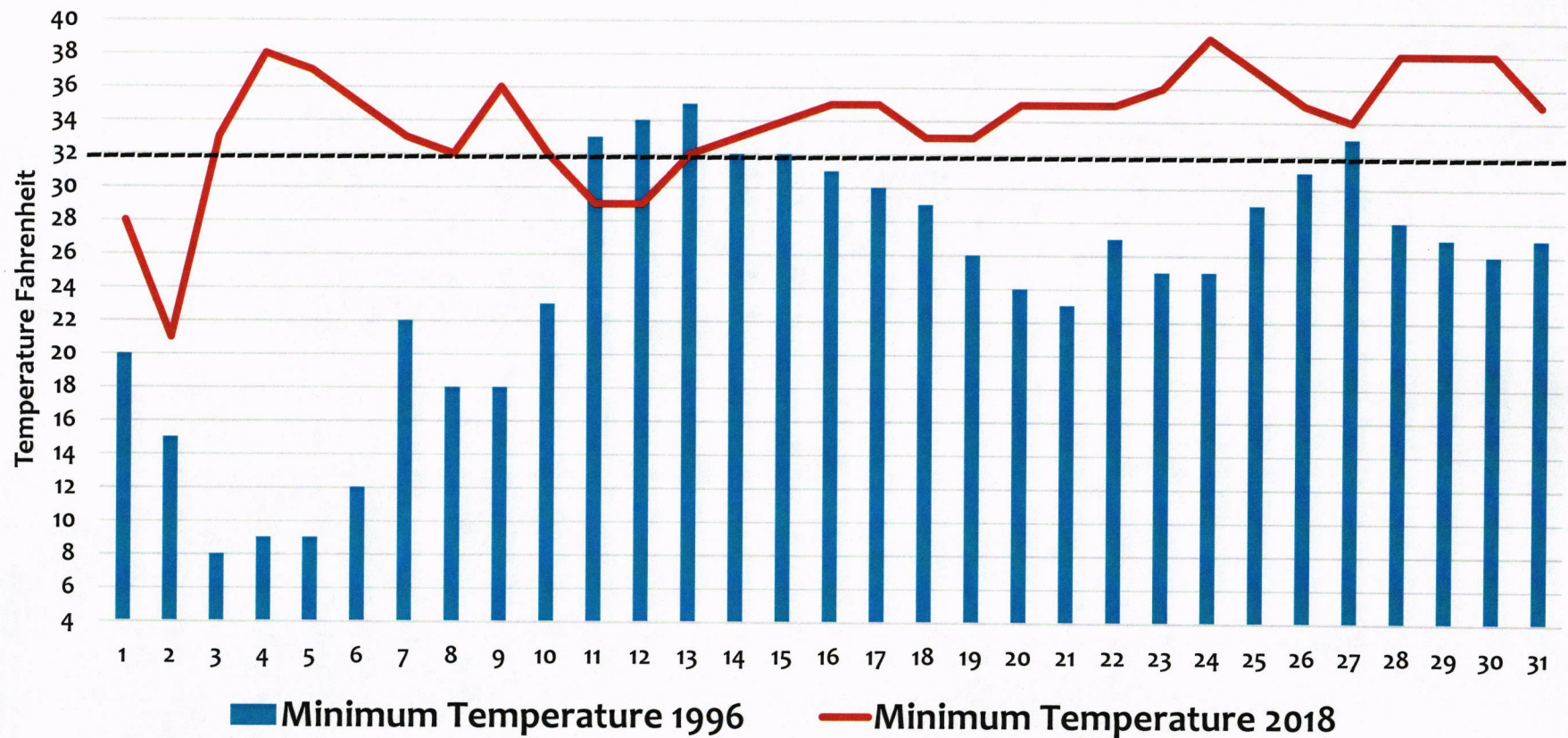
<http://nris.mt.gov/drought>

Montana - Mean Temperature May 2018 Departure from 1981-2010 Normal

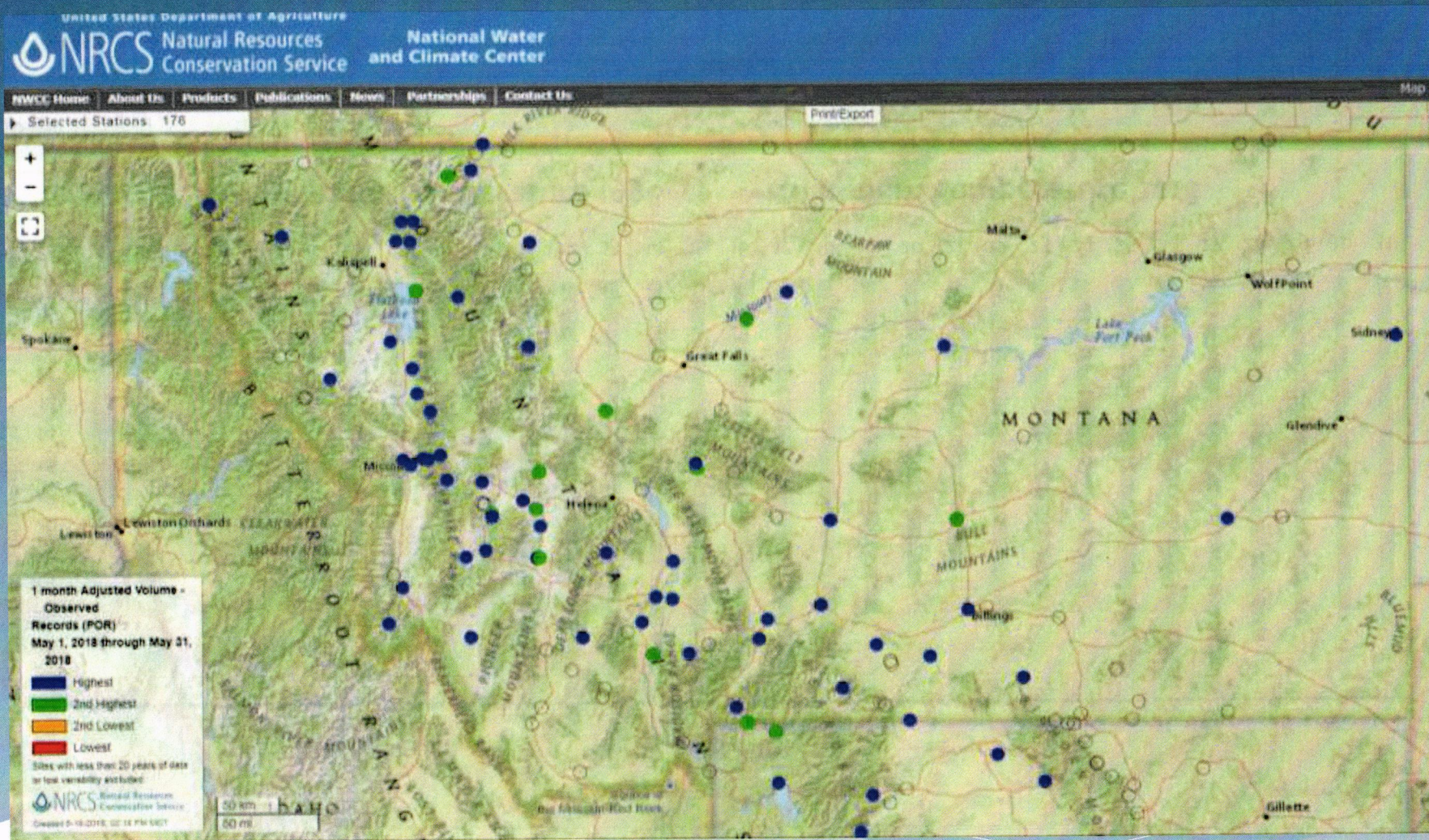


WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 JUN 2018

Barker Lakes Snotel Site - Elevation 8,250
Daily Minimum Temperatures in May
1996 vs. 2018

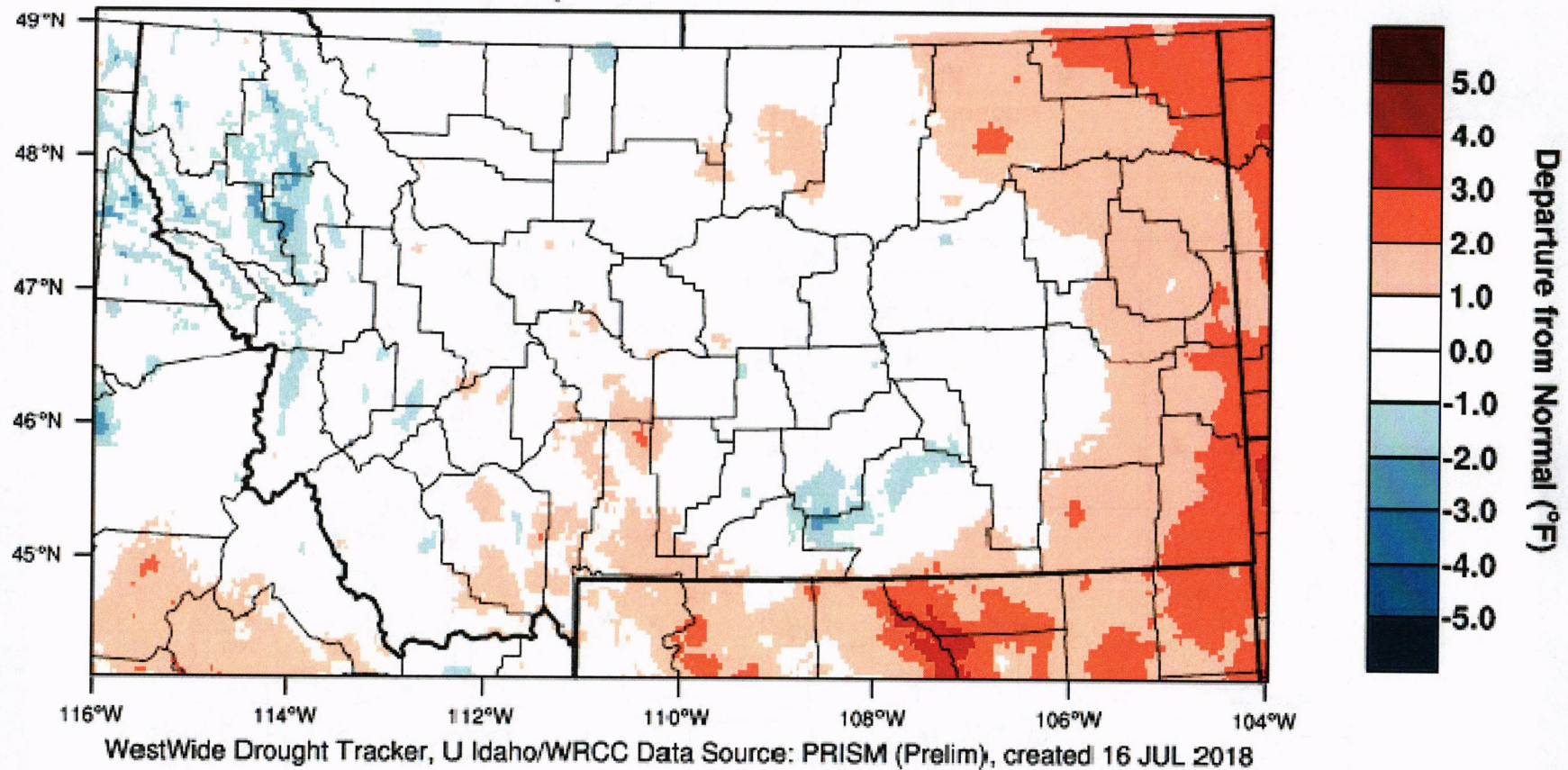


Record May Streamflows: Monthly Volumes



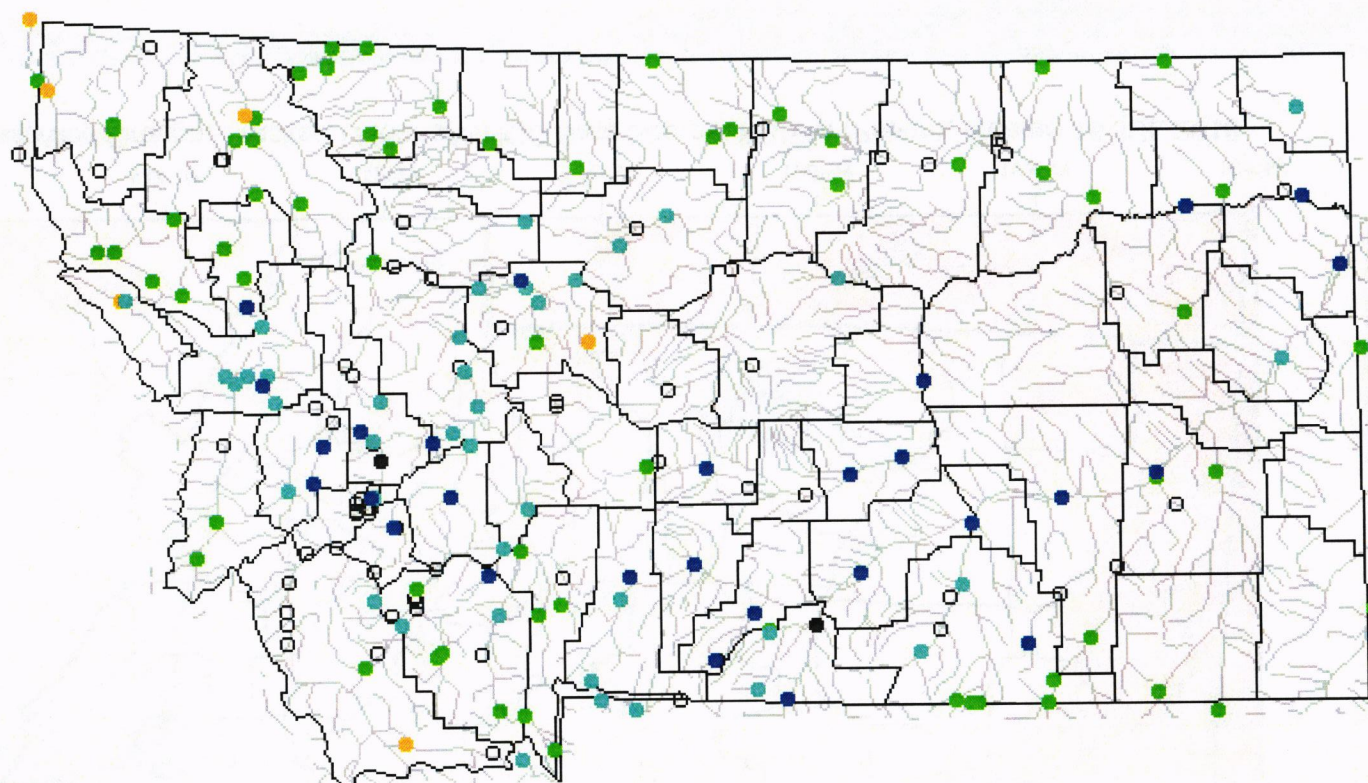
Montana - Mean Temperature

June 2018 Departure from 1981-2010 Normal



Current Streamflows Compared to Historic Average

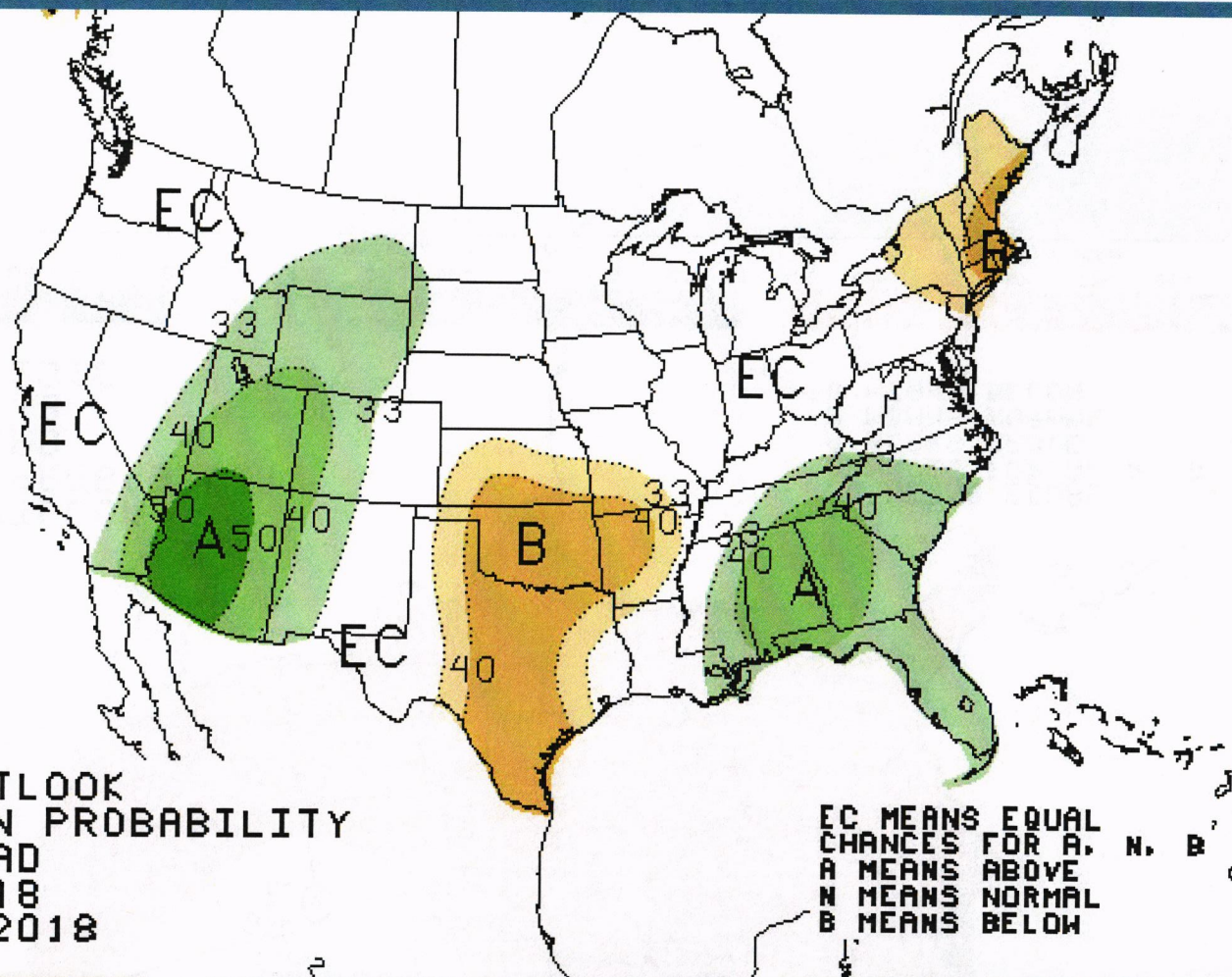
June 2018



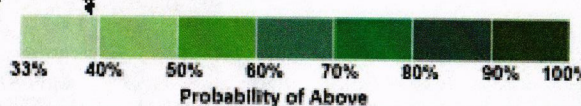
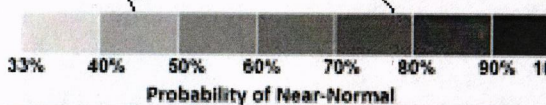
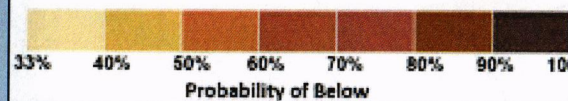
Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		



ONE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.0 MONTH LEAD
VALID JUL 2018
MADE 30 JUN 2018

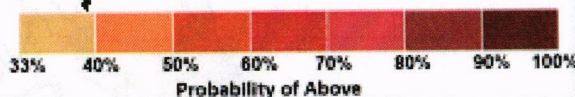
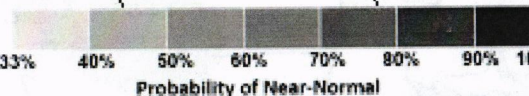
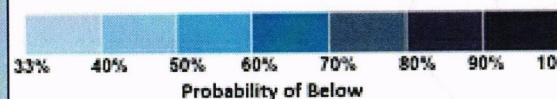
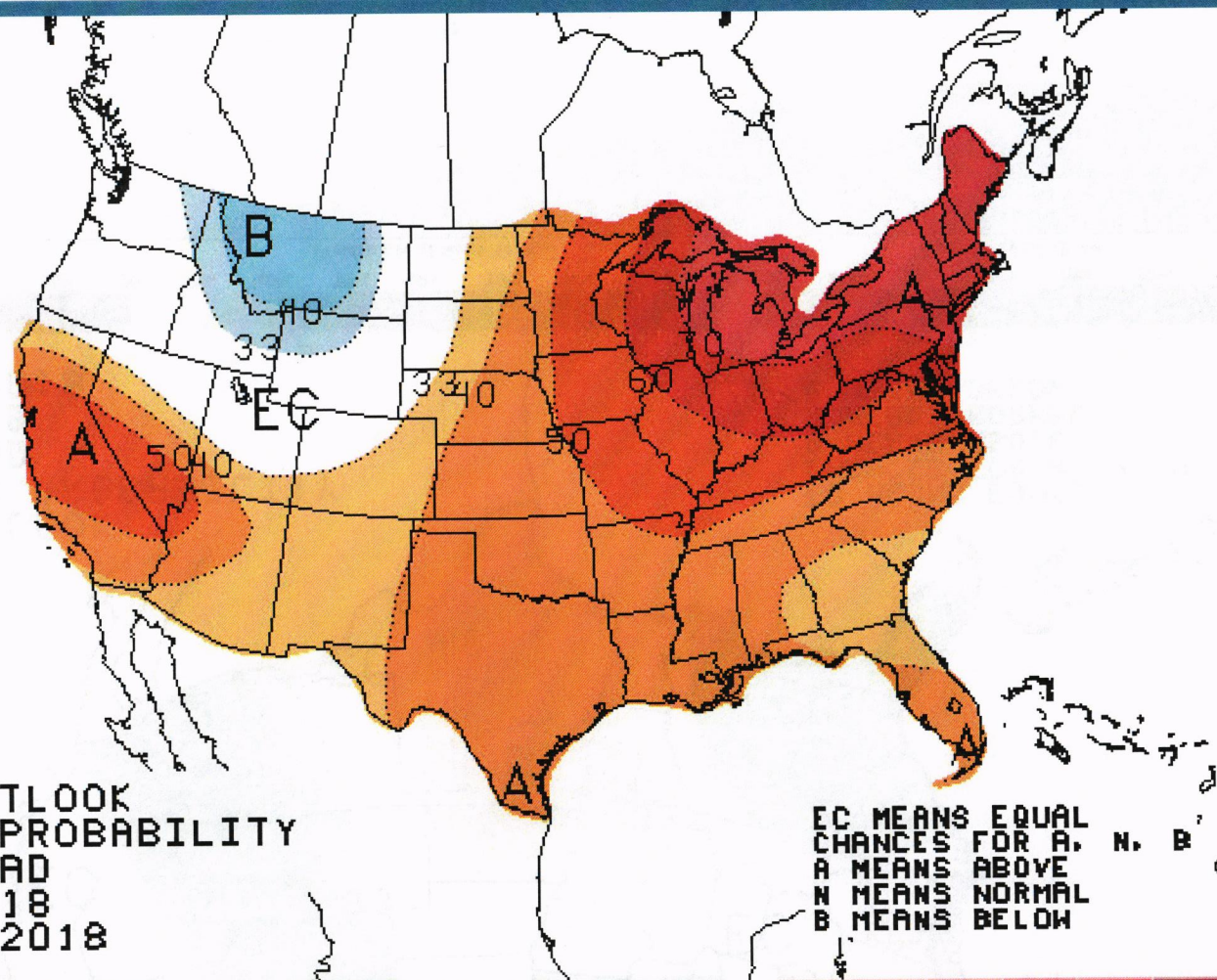


EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW





ONE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.0 MONTH LEAD
VALID JUL 2018
MADE 30 JUN 2018



EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW



Questions/Comments?

<http://dnrc.mt.gov/divisions/water/drought-management>

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Missouri River near Great Falls, Michael Downey